

# Weekly Report

2019.04.08-2019.04.14

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## Job Summary

1. Learning writing back-end code using express by decoupling front-end and back end.

2. Study relevant knowledge about transfer learning.

[http://jd92.wang/assets/files/transfer\\_learning\\_tutorial\\_wjd.pdf](http://jd92.wang/assets/files/transfer_learning_tutorial_wjd.pdf)

3. Learn basic concept, advantages and potential application about federated learning by reading relevant blogs and materials.

4. Paper reading:

1) An Interactive Method to Improve Crowdsourced Annotations  
*Shixia Liu, Changjian Chen, Yafeng Lu, Fangxin Ouyang, Bin Wang*

Content: design a visualization system to facilitate the expert validation procedure for crowdsourced annotations in learning-from-crowds model.

Plus: watch the video of teacher liu introducing explainable machine learning and her work. <https://v.qq.com/x/page/n0725pioi6m.html>

2) Communication-Efficient Learning of Deep Networks from Decentralized Data

## Work Plan

1. Reading papers about federated learning and learn about the algorithm and some open problems.

2. Try to use tensorflow federated.

3. Complete the back-end part of an experimental project.